

# 6-FM-17Ah



LUXPOWER  
CIA.LTDA.

## Valve-regulated Lead Acid Battery Specification

### Features

- Maintenance free
- Safety and no leakage
- Excellent recharge and discharge performance
- Low self-discharge rate
- Adapt to high or low temperature
- Good deep discharge performance
- Longer cycle life



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6-FM-17

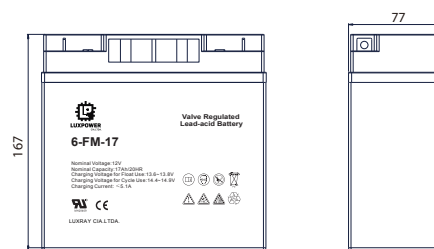
Valve Regulated  
Lead-acid Battery

Nominal Voltage: 12V  
Nominal Capacity: 17Ah/20HR  
Charging Voltage for Float Use: 13.6~13.8V  
Charging Voltage for Cycle Use: 14.4~14.9V  
Charging Current: <math>\leq 5.1A</math>



### Specification

Rated Voltage	12V
Numbers of cells	6 Cells
Capacity	17Ah@20hr-rate to 1.80V per cell @25°C
Weight	5kg
Internal Resistance	Approx. 18 mΩ
Terminal	F3 / F4
Max. Discharge Current	255A(5s)
Short Circuit Current	850A
Max. Charging Current	5.1A
Reference Capacity	C20 17AH C5 14.1AH C1 10AH
Design Life	6~8 years
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -20mV/°C/Cell
Cycle Use Voltage	14.4 V~14.9 V @ 25°C Temperature Compensation: -30mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~40°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Length	181±2mm (7.1 inches)
Width	77±1mm (3.0 inches)
Height	167±1mm (6.6 inches)
Total Height	167 ±1mm (6.6 inches)

### Constant Current Discharge Characteristics: A(25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	43.44	31.73	24.84	21.06	16.24	11.81	9.54	4.26	2.81	1.58	0.85
1.75V/cell	49.02	34.94	27.20	22.67	16.91	12.28	10.01	4.34	2.89	1.62	0.86
1.70V/cell	53.93	38.06	28.99	23.80	17.57	12.75	10.29	4.46	2.97	1.65	0.88
1.65V/cell	59.50	41.08	30.88	25.31	18.51	13.03	10.58	4.65	3.04	1.69	0.89
1.60V/cell	65.64	44.58	32.96	26.92	19.55	13.60	10.67	4.79	3.15	1.71	0.90

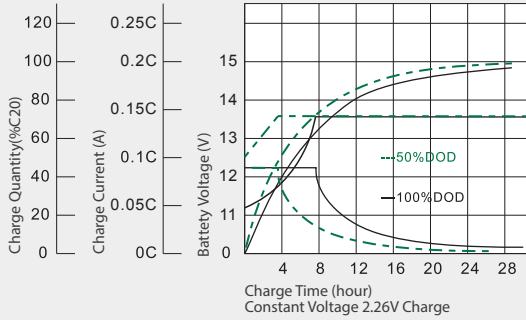
### Constant-power discharge parameter Unit: W(25°C)1

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	78.58	57.99	45.81	39.10	30.51	22.48	18.42	8.25	5.50	3.13	1.68
1.75V/cell	86.70	62.71	49.39	41.65	31.36	23.14	19.17	8.37	5.62	3.20	1.70
1.70V/cell	92.84	66.77	52.04	43.44	32.49	23.99	19.64	8.59	5.75	3.27	1.73
1.65V/cell	100.96	71.40	54.87	45.81	34.00	24.37	20.02	8.92	5.89	3.32	1.75
1.60V/cell	108.80	75.74	57.71	48.26	35.61	25.22	20.12	9.14	6.06	3.36	1.76

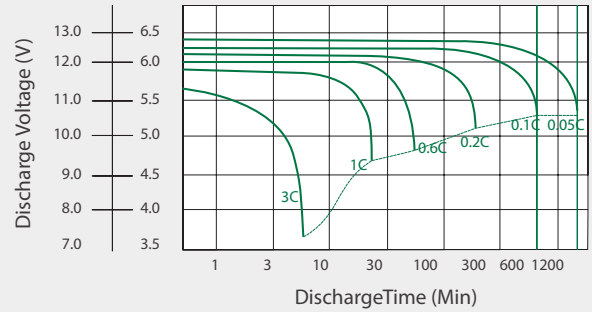
# 6-FM-17Ah

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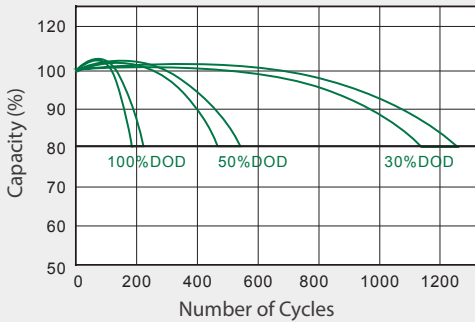
Charge Characteristics for Float Use @ 25°C/77°F



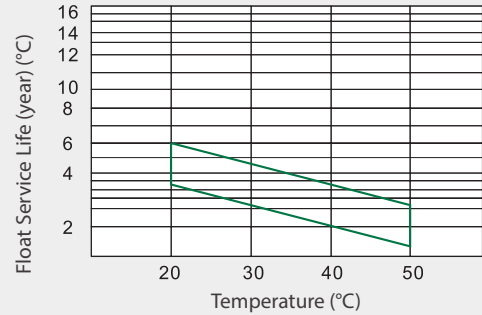
Discharge Characteristics at Various Rates @ 25°C/77°F



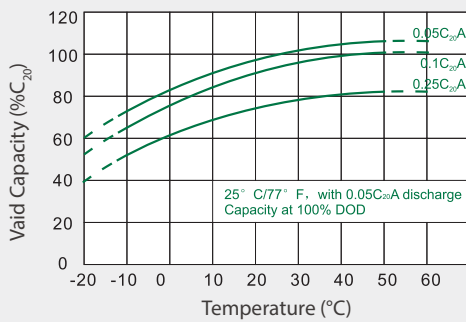
Cycle Life in Relation to Depth of Discharge



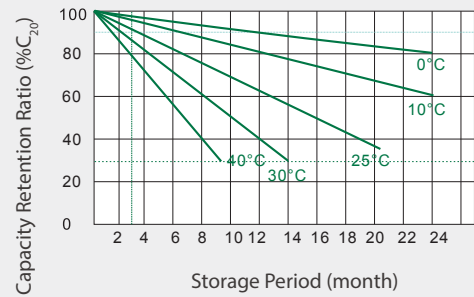
Float Service Life



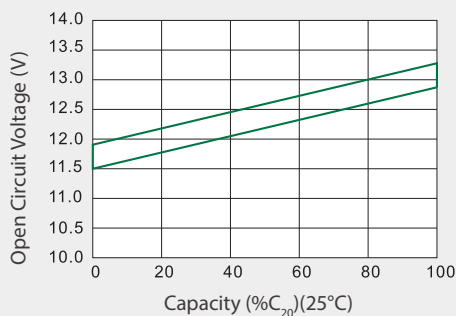
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

